

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

4

Original Patent

Patentees: Frank Randolph Bryant  
Tsiu Chiu Chan

Patent No.: 5,825,070

Title: STRUCTURE FOR TRANSISTOR  
DEVICES IN AN SRAM CELL

Issued: October 20, 1998

Atty Dk No.: 96-C-126



Reissue Application

Applicants: Frank Randolph Bryant  
Tsiu Chiu Chan

Serial No.: 09/694,051

Title: STRUCTURE FOR  
TRANSISTOR DEVICES IN AN  
SRAM CELL

Filing Date: October 20, 2000

Atty Dk No.: 96-C-126RE (1678-31)

**CERTIFICATE OF MAILING OR TRANSMISSION**

I hereby certify that this correspondence is being deposited in the United States Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Box MISSING PARTS, Washington, D.C. 20231, on this 18<sup>th</sup> day of January, 2001.

Kelly P. Johnson  
Signature

**ASSENT OF ASSIGNEE**

TO THE ASSISTANT COMMISSIONER FOR PATENTS:

STMicroelectronics, Inc. (formerly known as SGS-Thomson Microelectronics, Inc.), assignee of U.S. Patent No. 5,825,070, consents to the filing of reissue application No. 09/694,051 (or the present application, if filed with the initial application papers) for the reissue of U.S. Patent No. 5,825,070.

STMicroelectronics, Inc.

Lisa K. Jorgenson  
Lisa K. Jorgenson  
Director of Intellectual Property  
Assistant Secretary

**CERTIFICATE UNDER 37 C.F.R. § 3.73**

Applicants: Frank Randolph Bryant and Tsui Chiu Chan

Reissue Application No.: 09/694,051 Filed: October 20, 2000

For: STRUCTURE FOR TRANSISTOR DEVICES IN AN SRAM CELL

STMicroelectronics, Inc., a corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation,  
partnership, government agency, etc.)



certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

A.  An assignment from inventor of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel 8221 Frame 0485 (copy enclosed).

B.  A chain of title from the inventor(s), of the patent application identified above, to the current assignees as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_  
Frame \_\_\_\_\_ or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_  
Frame \_\_\_\_\_ or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_  
Frame \_\_\_\_\_ or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignments or other documents in the chain of title are attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 11/29/00

Name: Lisa K. Jorgenson

Title: Director of Intellectual Property & Assistant Secretary

Signature: Lisa K. Jorgenson

DOCKET NO. 93-C-20C1

Form P-1095

12

To the Honorable Commission

1996  
MAY 1996  
Conveying party

Frank Randolph Bryant  
Tsu Chiu Chan

3. Nature of conveyance:  
a. Assignment

Merger

b. Security Assignment

Change of Name

Other \_\_\_\_\_

Execution Dates: September 12, 1996

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: September 12, 1996

A. Patent Application No (s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Lisa K. Jorgenson

Internal Address: SGS-Thomson Microelectronics, Inc.

Street Address: 1310 Electronics Drive

City: Carrollton State: TX ZIP 75006

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h)).....\$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit Account Number: \_\_\_\_\_

FRD 11-12-96

DO NOT USE THIS SPACE

9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document

Duke W. Yee

Name of Person Signing

Duke W. Yee  
Signature

September 12, 1996

Date

Total number of pages including cover sheet: 2

CMB No. 3651 0011 (exp. 4/94)

Do not detach this portion

13. documents to be recorded with required cover sheet information:  
Commissioner of Patents and Trademarks  
Box Assignments  
Washington, D.C. 20231

110 UT 10/09/96 06712808  
1581 40.00 CN

## PATENT ASSIGNMENT

WHEREAS, I, Tsui Chiu Chan and Frank Bryant, have invented new and useful improvements in a

## METHOD OF MAKING TRANSISTOR DEVICES IN AN SRAM CELL

for which application was made for Letters Patent, said application being executed by us on the date of 12 day of Sept, 1996, and further being identified by Attorney Docket No. 93-C-20C1.

WHEREAS, SGS-THOMSON MICROELECTRONICS, INC., a corporation of the State of Delaware, having a correspondence address of 1310 Electronics Drive, Carrollton, Texas 75006, is desirous of acquiring my entire right, title and interest in said application and our Letters Patent which may issue thereon:

NOW THEREFORE, be it known by all whom it may concern that for and in consideration of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and other good and valuable consideration, I hereby assign to said corporation, both in and for the territory of the United States of America and the entire world our entire right, title and interest in and to said invention, patent application and any patent which may issue thereon, including all priority rights for patent applications foreign to the United States of America.

I HEREBY covenant and agree that I will at any time, upon the request and at the expense of said corporation, execute and deliver any and all papers and do all lawful acts that may be necessary or desirable to perfect the title to said invention, applications and patents, and I authorize the Commissioner of Patents and Trademarks to issue Letters Patent to said corporation.

I HEREBY declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

IN TESTIMONY WHEREOF, I execute this assignment on the 12 day of Sept, 1996.

Frank Bryant  
Frank Bryant

Tsui Chiu Chan  
Tsui Chiu Chan

10-08-1998

FORM PTO-1595  
(Rev. 6-03)  
OMB No. 0651-0011 (exp. 4/94)

Tab settings → → →

100845831

SHEET

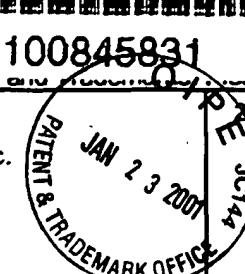
U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

.Y

and the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

SGS-Thomson Microelectronics, Inc.



## 2. Name and address of receiving party(ies):

Name: STMicroelectronics, Inc.

Internal Address: M/S 2346

Additional name(s) of conveying party(ies) attached?

 Yes  No

## 3. Nature of conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: May 19, 1998

Street Address: 1310 Electronics Drive

City: Carrollton State: TX ZIP: 75006

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

## A. Patent Application No.(s)

See attached Schedule A

## B. Patent No.(s)

See attached Schedule B

Additional numbers attached?  Yes  No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Lisa K. Jorgenson

Internal Address: M/S 2346

## 6. Total number of applications and patents involved: 62

7. Total fee (37 CFR 3.41) ..... \$ 2,440.00

 Enclosed Authorized to be charged to deposit account

## 8. Deposit account number:

19-1353

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Lisa K. Jorgenson

Name of Person Signing

Signature

Sept. 25, 1998

Total number of pages including cover sheet, attachments, and document: 8

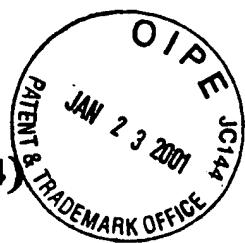
Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patents & Trademarks, Box Assignments  
 Washington, D.C. 20231

Form PTO-1595-Recordation Form Cover Sheet

PATENT  
REEL: 9483 FRAME: 0420

1007152  
11 PCT

**SCHEDULE A**  
**PENDING APPLICATIONS**  
**(continuation of Recordation Form Cover Sheet-Item 4)**



ST DOCKET NO.	APPLICATION NO.	FILING DATE
95-C-151C1	08/926,833	10-Sep-1997
91-C-084	07/769,185	30-Sep-1991
95-C-156	08/587,711	19-Jan-1996
91-C-133D2	08/905,918	04-Aug-1997
96-S-080	08/740,129	24-Oct-1996
95-C-129	08/766,404	12-Dec-1996
92-C-029C2	08/477,283	07-Jun-1995
96-C-029	08/690,738	31-Jul-1996
93-C-032D2	08/976,760	24-Nov-1997
96-S-082	08/736,524	24-Oct-1996
96-C-126	08/712,808	12-Sep-1996
95-C-149C1	08/858,788	19-May-1997
97-S-018	08/886,324	01-Jul-1997
95-C-164C1	08/626,540	02-Apr-1996
96-S-064	08/762,608	09-Dec-1996
96-C-037	08/679,138	12-Jul-1996
95-C-140C2	08/758,340	03-Dec-1996
91-C-155C1	08/448,703	24-May-1995
95-C-150D1	08/944,649	06-Oct-1997
96-C-100	08/777,635	31-Dec-1996
96-C-096	08/770,548	08-Dec-1996
88-C-011D3	08/552,440	03-Nov-1995
93-C-056	08/172,854	22-Dec-1993
95-C-145	08/588,762	19-Jan-1996
94-S-018C1	08/723,713	27-Sep-1996
96-S-071	08/853,143	08-May-1997
96-L-028	08/808,455	28-Feb-1997
88-C-02D1	08/436,165	08-May-1995
93-C-039D1	08/647,222	09-May-1996
91-C-049D2	08/738,040	24-Oct-1996
95-C-131	08/574,659	19-Dec-1995
94-C-099C2	08/758,723	30-Dec-1996
95-C-137	08/587,709	19-Jan-1996
95-C-096C1	08/743,380	04-Nov-1996
96-P-097	08/918,859	26-Aug-1997
96-C-056C1	08/710,356	17-Sep-1996
91-C-160D1	08/434,179	03-May-1995
96-S-076	08/814,932	27-Feb-1997
91-C-130D2	08/441,778	16-May-1995
95-C-023C2	08/552,383	03-Nov-1995

**SCHEDULE A**  
**PENDING APPLICATIONS**  
**(continuation of Recordation Form Cover Sheet-Item 4)**

<b>ST DOCKET NO.</b>	<b>APPLICATION NO.</b>	<b>FILING DATE</b>
97-C-082	08/889,816	08-Jul-1997
95-C-014D1	08/820,406	12-Mar-1997
97-S-088	08/957,088	24-Oct-1997
93-C-013RE	08/966,042	07-Nov-1997
92-C-001D1	08/182,809	14-Jan-1994
95-S-042C1	08/782,524	10-Jan-1997
96-L-103	08/775,643	31-Dec-1996
97-C-005	08/814,332	11-Mar-1997
96-C-122	08/771,670	23-Dec-1996
96-C-020	08/774,911	27-Dec-1996
92-C-056C2	08/407,767	21-Mar-1995
96-C-094	08/862,969	23-May-1997

**SCHEDULE B**  
**ISSUED PATENTS**  
**(continuation of Recordation Form Cover Sheet-Item 4)**

<b>ST DOCKET NO.</b>	<b>APPLICATION NO.</b>	<b>FILING DATE</b>	<b>PATENT NO.</b>
96-C-108	08/773,068	26-Dec-1996	5,805,611
95-C-055C1	08/756,460	26-Nov-1996	5,805,419
95-C-063	08/488,398	07-Jun-1995	5,801,396
95-C-170	08/720,686	02-Oct-1996	5,808,870
95-C-067D1	08/644,078	09-May-1996	5,804,472
94-C-032C1	08/767,343	16-Dec-1996	5,811,865
96-S-011	08/702,911	26-Aug-1996	5,812,789
94-S-043D1	08/819,597	17-Mar-1997	5,818,180
95-C-063D1	08/698,129	15-Aug-1996	5,821,136
94-C-101C2	08/704,153	28-Aug-1996	5,821,600



*State of Delaware*  
*Office of the Secretary of State*

---

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "SGS-THOMSON MICROELECTRONICS, INC.", CHANGING ITS NAME FROM "SGS-THOMSON MICROELECTRONICS, INC." TO "STMICROELECTRONICS, INC.", FILED IN THIS OFFICE ON THE NINETEENTH DAY OF MAY, A.D. 1998, AT 10 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



A handwritten signature in black ink that reads "Edward J. Freel".

Edward J. Freel, Secretary of State

0779840 8100

981191400

AUTHENTICATION:

9088969

DATE:

05-19-98

PATENT

REEL: 9483 FRAME: 0424

CERTIFICATE OF AMENDMENT

OF



RESTATE CERTIFICATE OF INCORPORATION

SGS-THOMSON Microelectronics, Inc., a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware, DOES HEREBY CERTIFY:

**FIRST:** That the Board of Directors of said corporation, by the unanimous written consent of its members, filed with the minutes of the Board, adopted a resolution proposing and declaring advisable the following amendment to the Restated Certificate of Incorporation of said corporation:

RESOLVED, that the Restated Certificate of Incorporation of SGS-THOMSON Microelectronics, Inc. be amended by changing the First Article thereof so that, as amended, said Article shall be and read as follows:

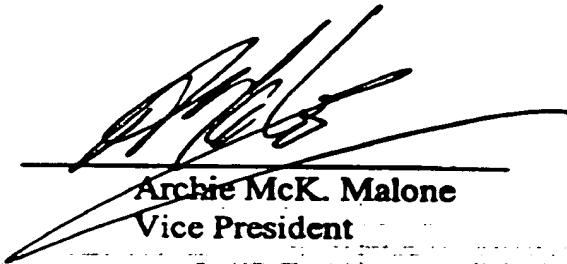
**"FIRST:** The name of the corporation is STMicroelectronics, Inc."

**SECOND:** That in lieu of a meeting and vote of stockholders, the stockholders have given written consent to said amendment in accordance with

the provisions of Section 228 of the General Corporation Law of the State of Delaware.

THIRD: That the aforesaid amendment was duly adopted in accordance with the applicable provisions of Section 242 and 228 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, said SGS-THOMSON Microelectronics, Inc. has caused this certificate to be signed by Archie McK. Malone, its Vice President, and attested by Steven K. Rose, its Secretary, this 18th day of May, 1998.



Archie McK. Malone  
Vice President

ATTEST:



Steven K. Rose  
Secretary

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner of Patents and Trademarks  
Box Assignments  
Washington, D.C. 20231



CHANGE OF NAME OF ASSIGNEE

Dear Sir:

Each of the assignments for the pending applications and issued patents listed on the attached Recordation Form Cover Sheet as Schedule A and B, respectively, are in the name of SGS-Thomson Microelectronics, Inc. The new name for SGS-Thomson Microelectronics, Inc. is STMicroelectronics, Inc. Proof of assignee's change of name is established by the certificate from the Secretary of State of Delaware attached hereto as Exhibit A.

Please record the name change against each of the patent applications and patents. A check in the amount of \$2,440.00 is enclosed to cover the recordation fee. The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Account No. 19-1353. A duplicate copy of this letter is enclosed.

Respectfully submitted,

Lisa K. Jorgenson  
Reg. No. 34,845

STMicroelectronics, Inc.  
1310 Electronics Drive  
Carrollton, TX 75006  
972-466-7414 (tel)  
972-466-7044 (fax)

Certificate of Mailing  
37 CFR 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail with sufficient postage in an envelope addressed to Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231 on September 28th, 1998.

Annie Rodriguez  
Signature of person mailing paper